**Test mode : 802.11n(20 MHz, Ant0)**

| Mode | Frequency (MHz) | Ch. | Test Results | |
|---|---|---|---|---|
| | | | dBm | Result |
| 802.11n (20 MHz) | 2412 | 1 | -10.18 | Complies |
| | 2437 | 6 | -7.79 | Complies |
| | 2462 | 11 | -13.05 | Complies |

**Test mode : 802.11n(40 MHz, Ant0)**

| Mode | Frequency (MHz) | Ch. | Test Results | |
|---|---|---|---|---|
| | | | dBm | Result |
| 802.11n (40 MHz) | 2422 | 3 | -13.38 | Complies |
| | 2437 | 6 | -13.80 | Complies |
| | 2452 | 9 | -12.79 | Complies |

**Test mode : 802.11n(20 MHz, Ant1)**

| Mode | Frequency (MHz) | Ch. | Test Results | |
|---|---|---|---|---|
| | | | dBm | Result |
| 802.11n (20 MHz) | 2412 | 1 | -7.55 | Complies |
| | 2437 | 6 | -10.64 | Complies |
| | 2462 | 11 | -10.40 | Complies |

**Test mode : 802.11n(40 MHz, Ant1)**

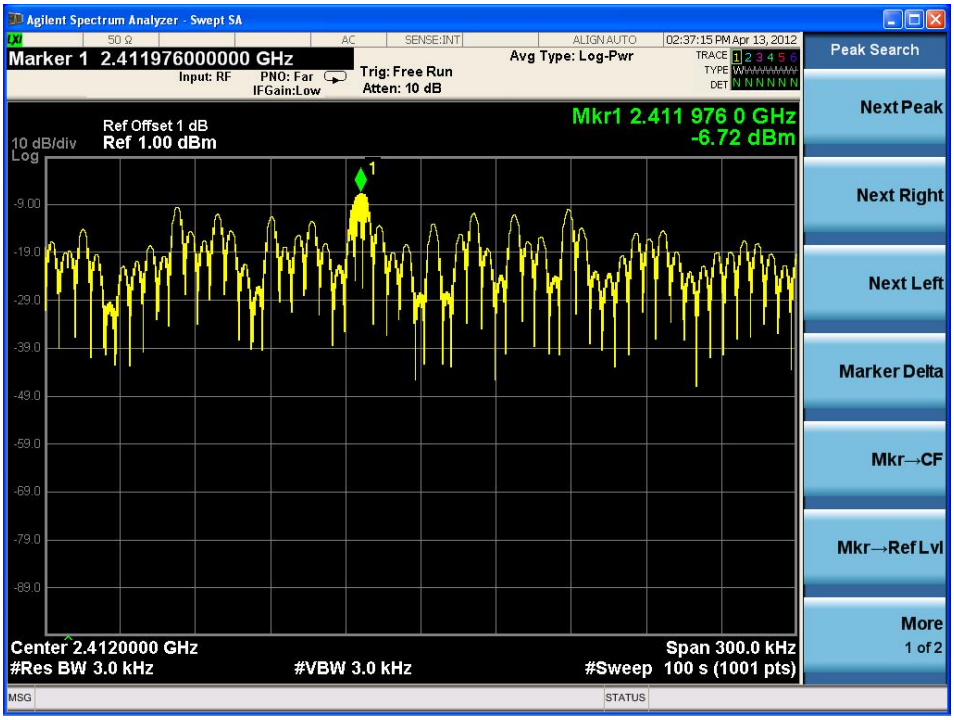
| Mode | Frequency (MHz) | Ch. | Test Results | |
|---|---|---|---|---|
| | | | dBm | Result |
| 802.11n (40 MHz) | 2422 | 3 | -11.35 | Complies |
| | 2437 | 6 | -15.11 | Complies |
| | 2452 | 9 | -12.81 | Complies |

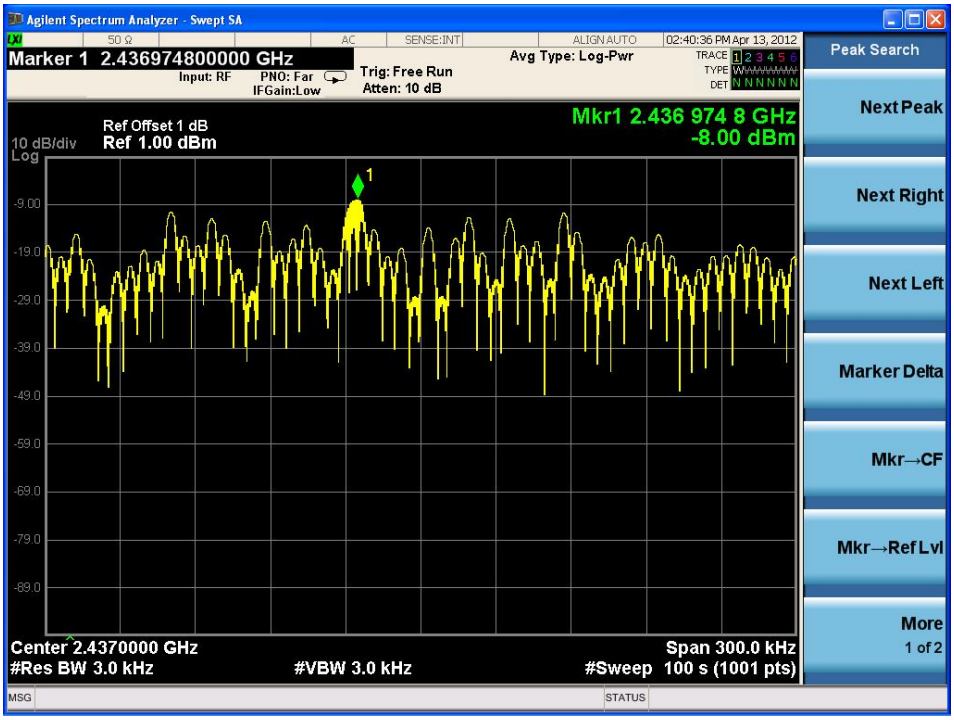
**Minimum Standard:**

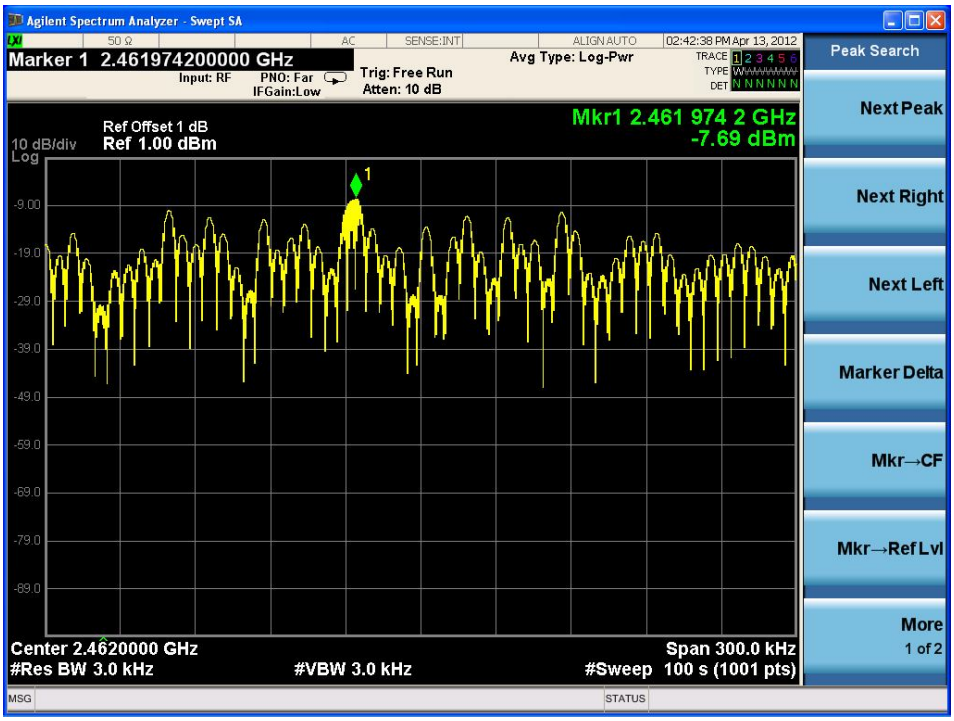
| | |
|---|---|
| Power Spectral Density | < 8dBm @ 3 kHz BW |

See next pages for actual measured spectrum plots.

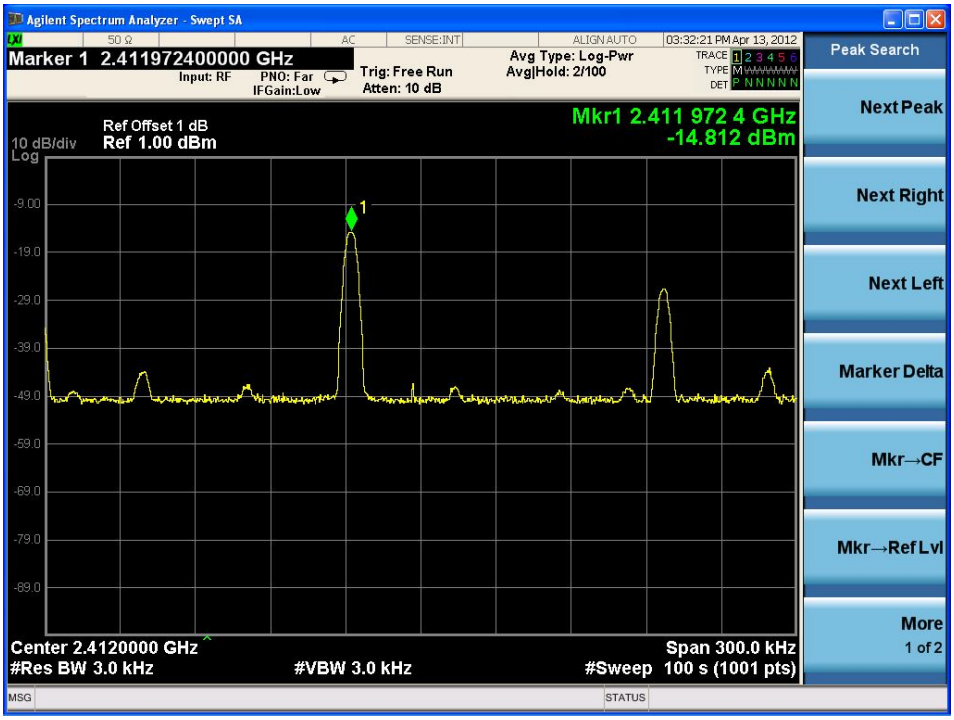
# 802.11b Power Density Measurement

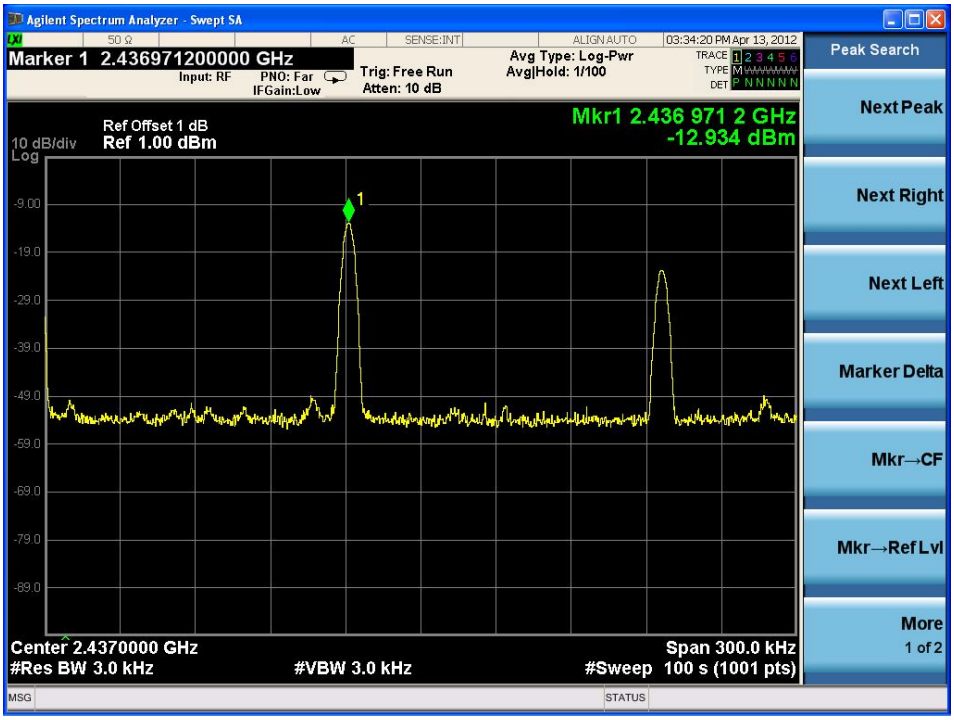


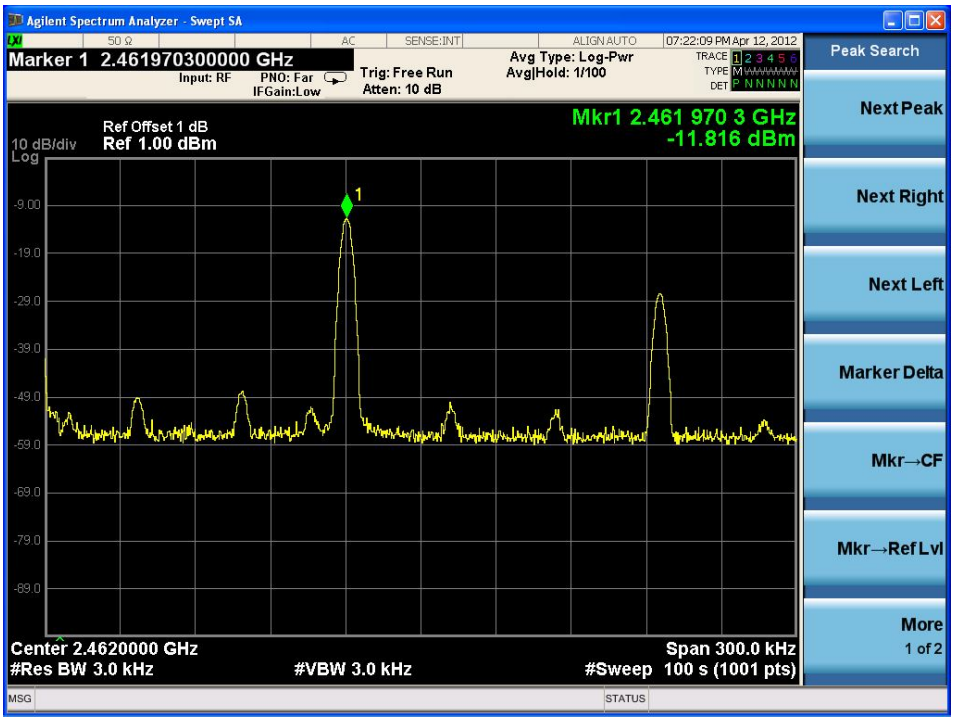





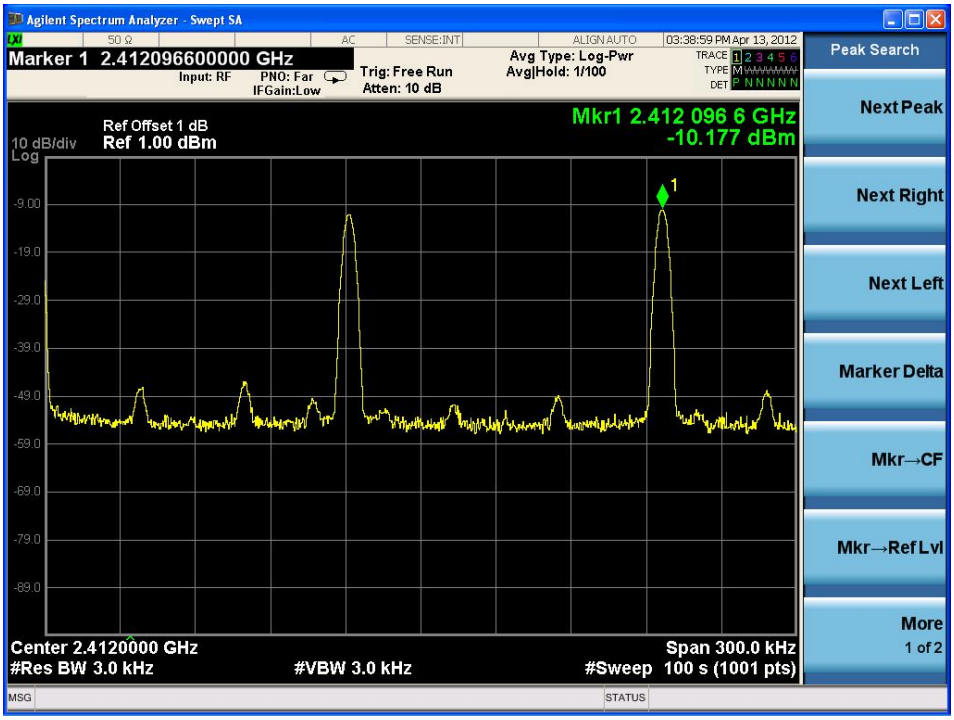
# 802.11g Power Density Measurement

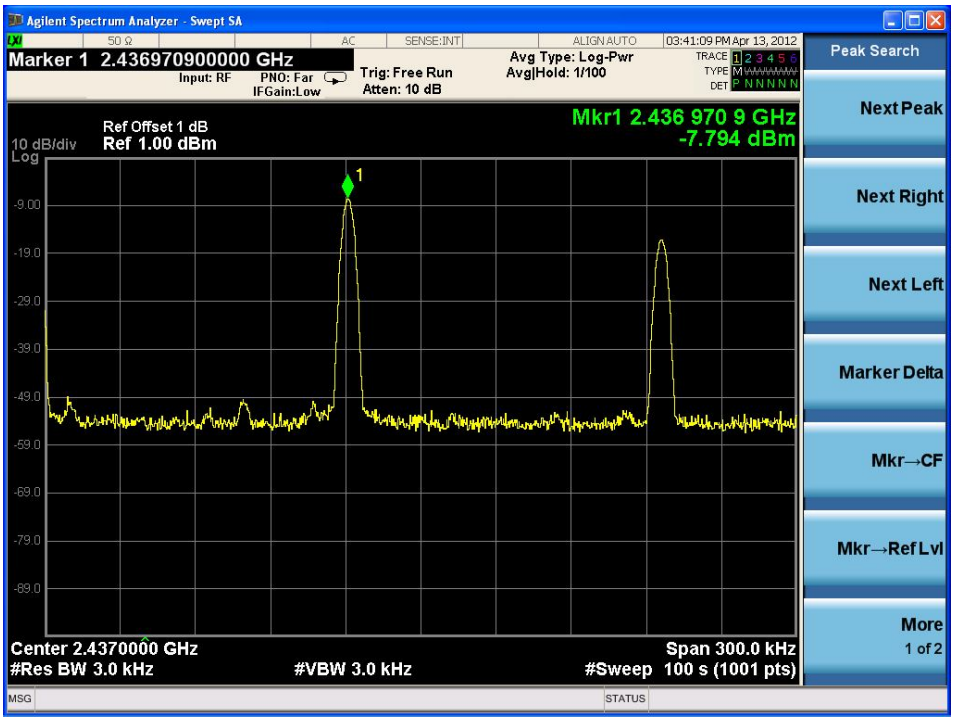


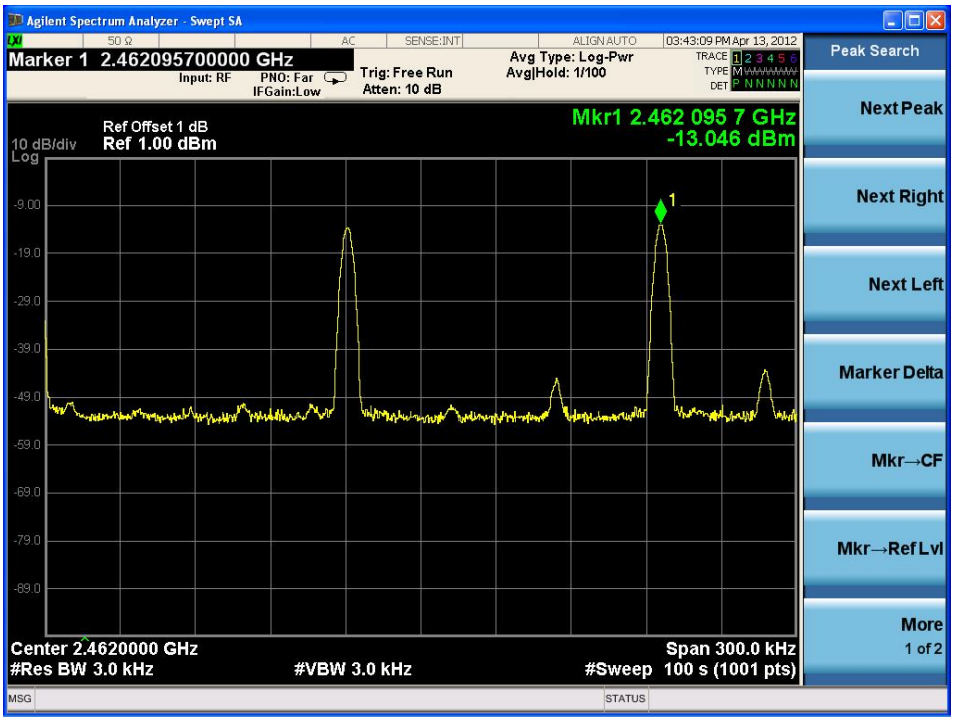





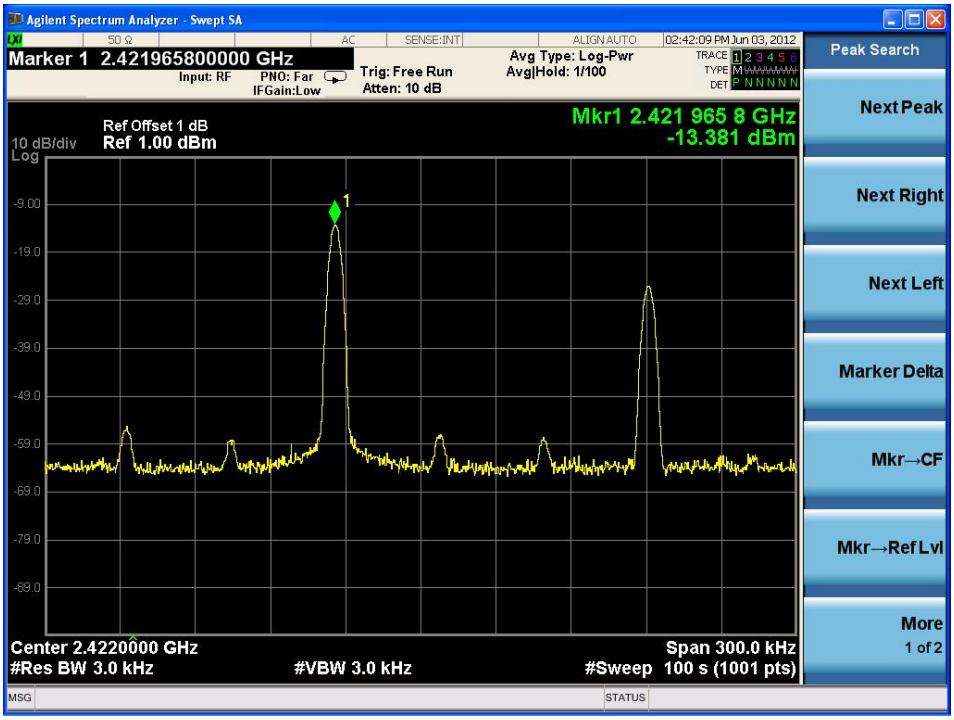
# 802.11n(20 MHz, Ant0) Power Density Measurement

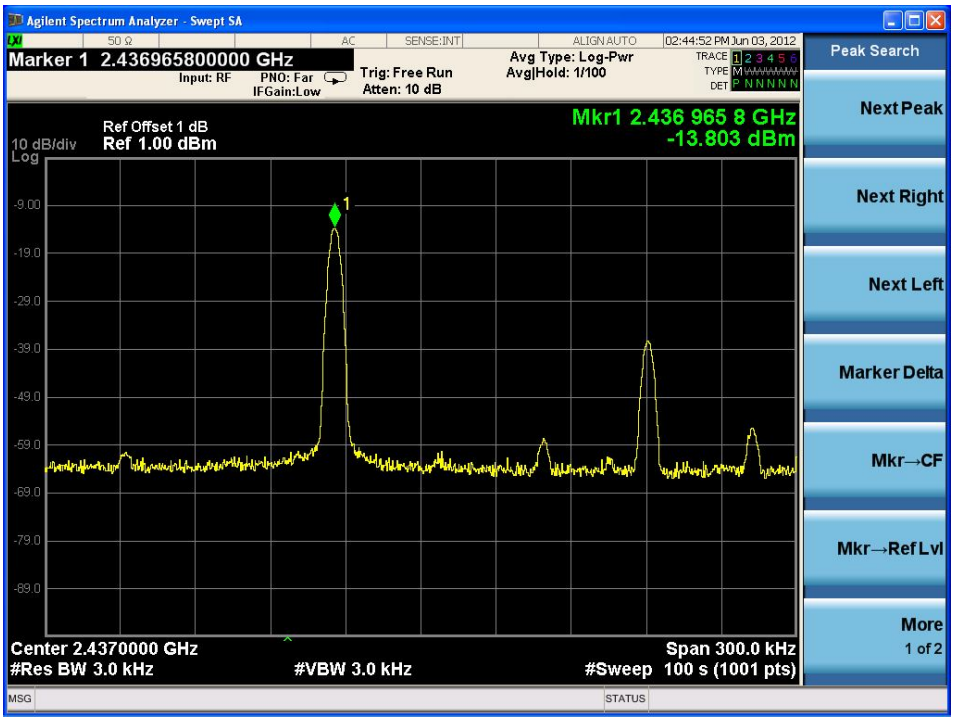


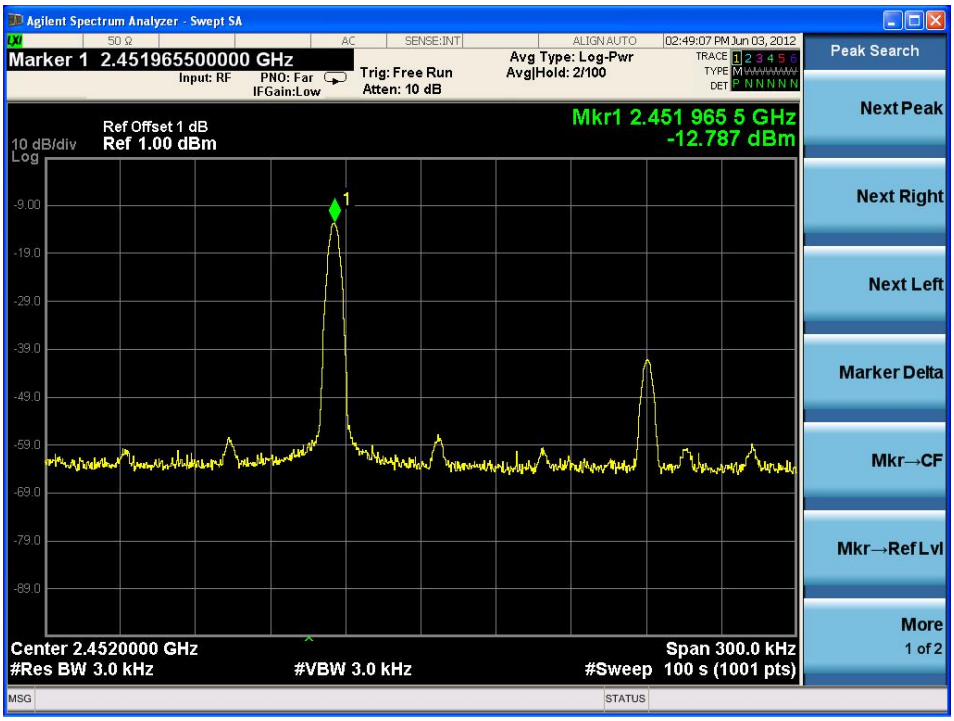





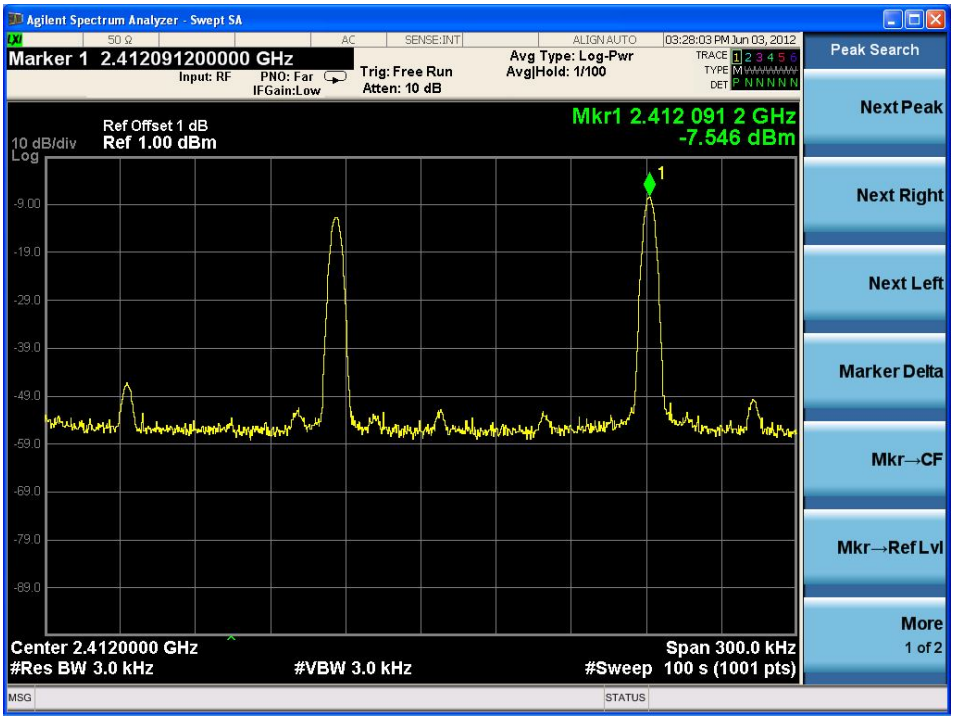
# 802.11n(40MHz, Ant0) Power Density Measurement

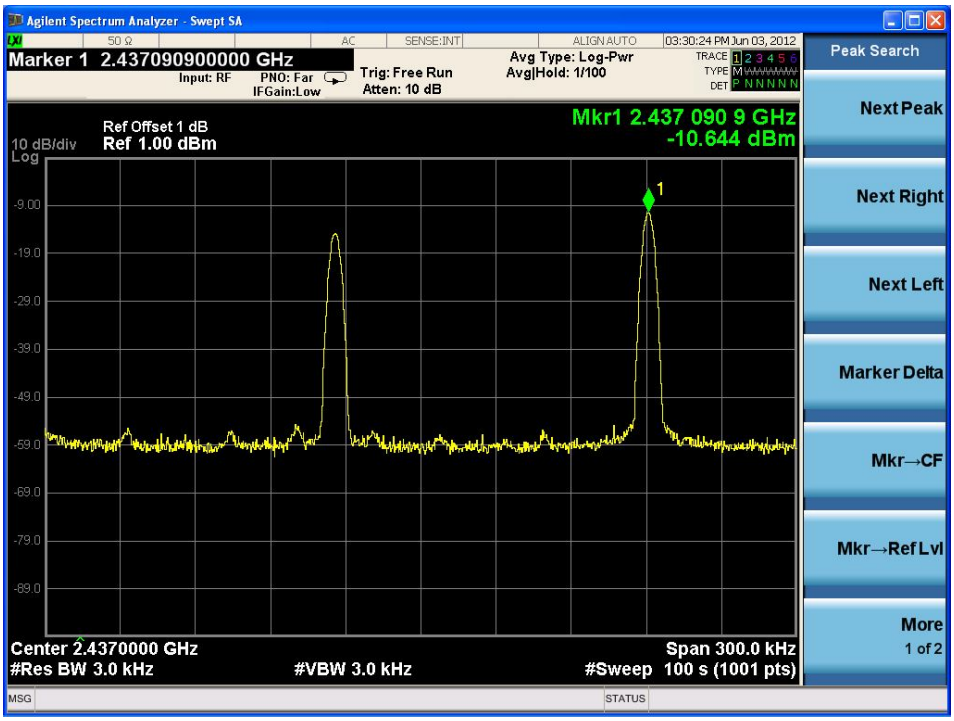


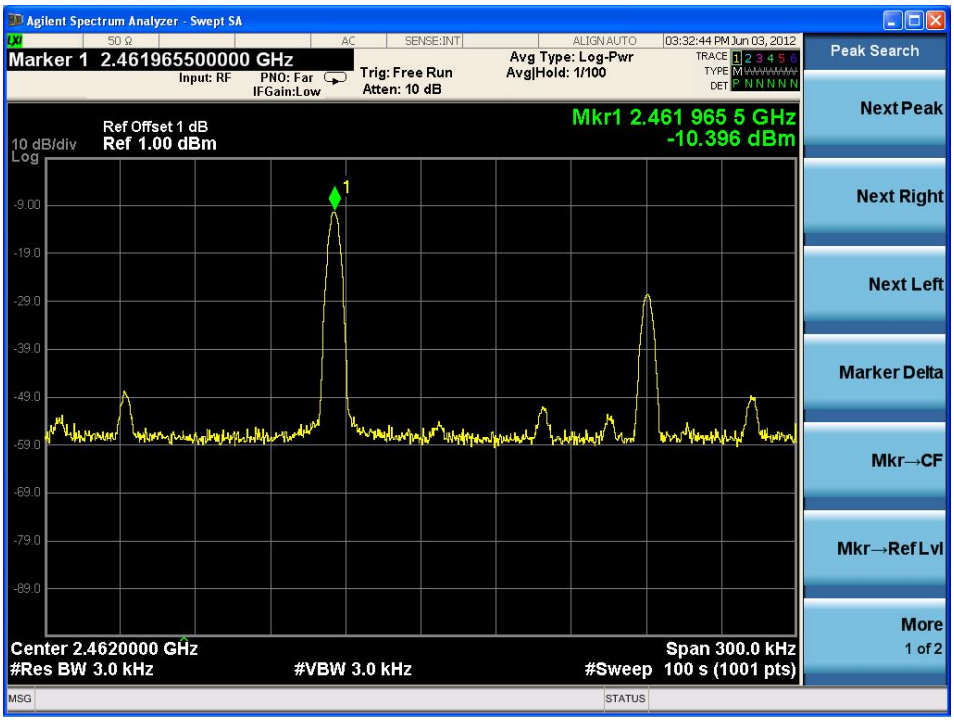





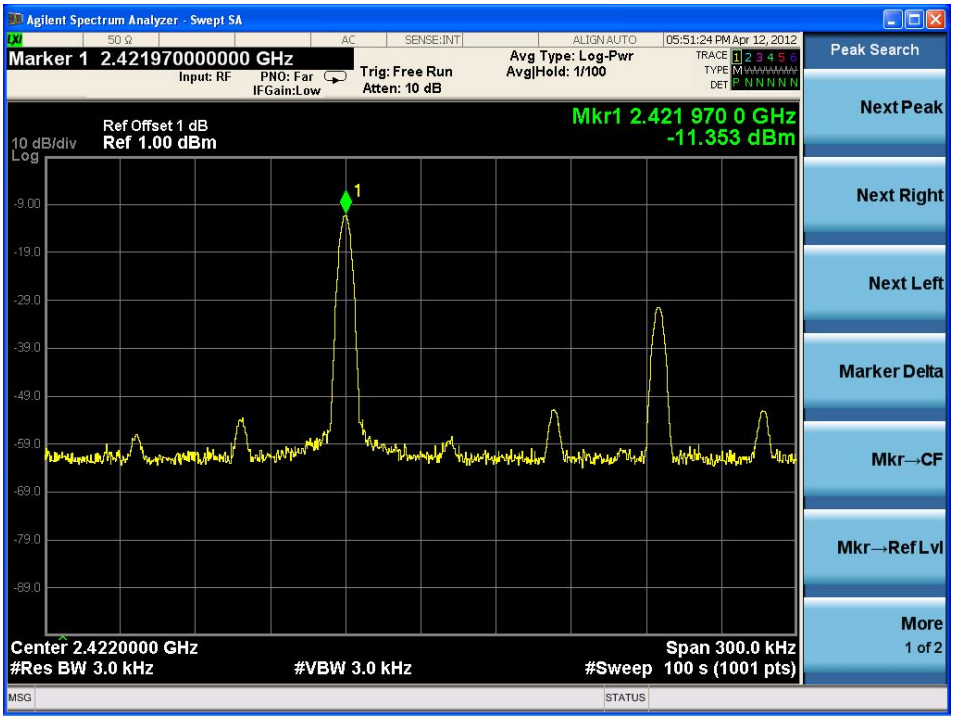
# 802.11n(20 MHz, Ant1) Power Density Measurement

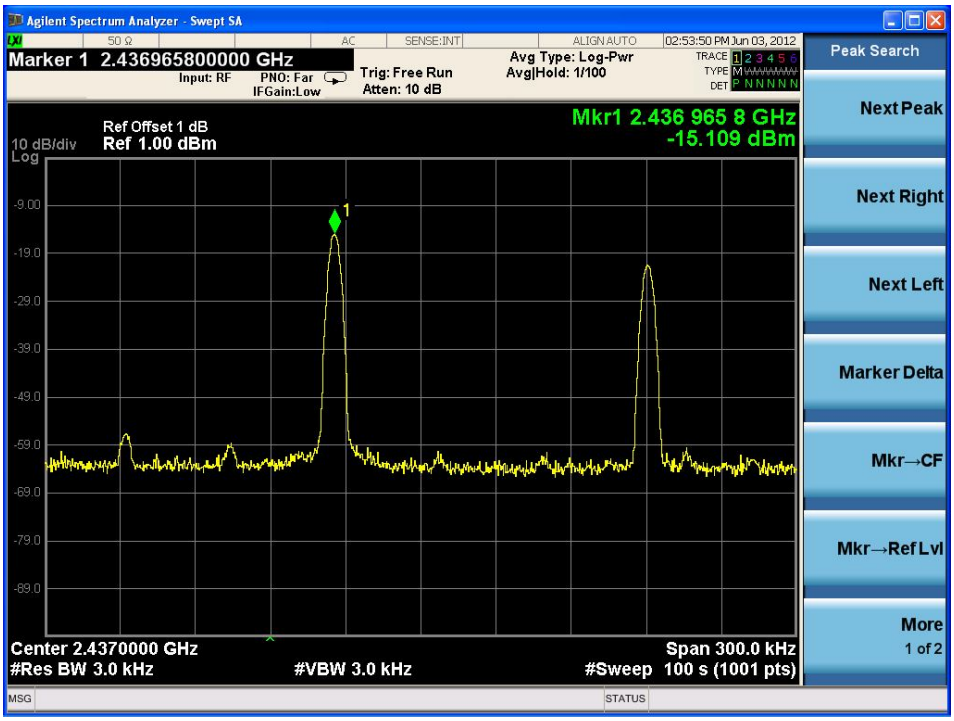


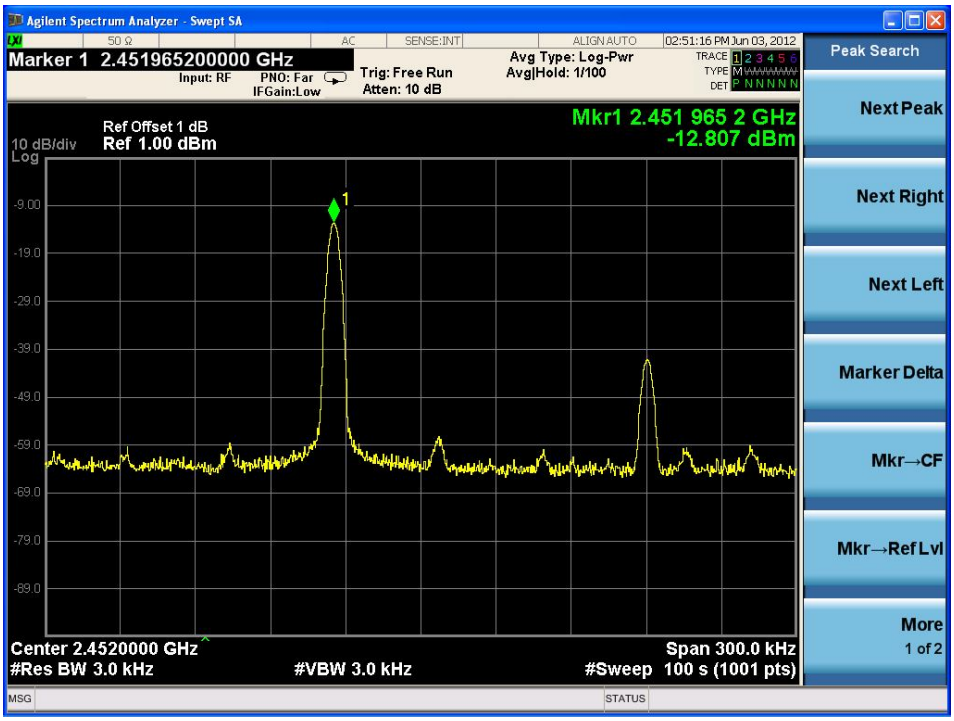





# 802.11n(40MHz, Ant1) Power Density Measurement





## 2.1.4 Band - edge

**Procedure:**

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

| | |
|---|---|
| RBW = 100 kHz | VBW = 100 kHz |
| Span = 50 MHz | Detector function = peak |
| Trace = max hold | Sweep = auto |

**Measurement Data: Complies**

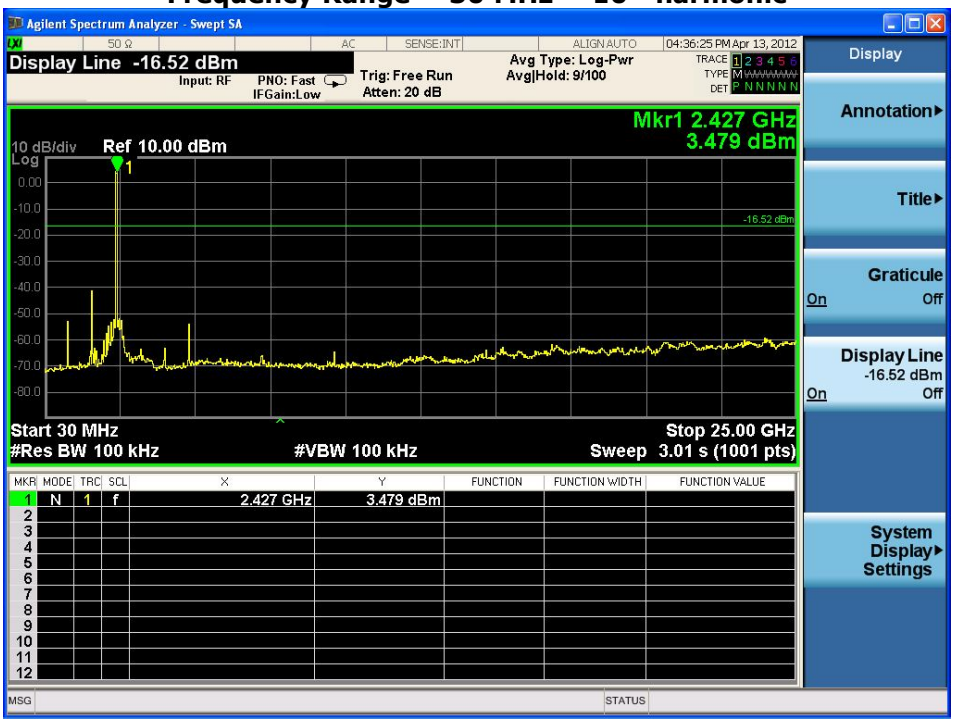
- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.

| | |
|---|---|
| **Minimum Standard:** | > 20 dBc |

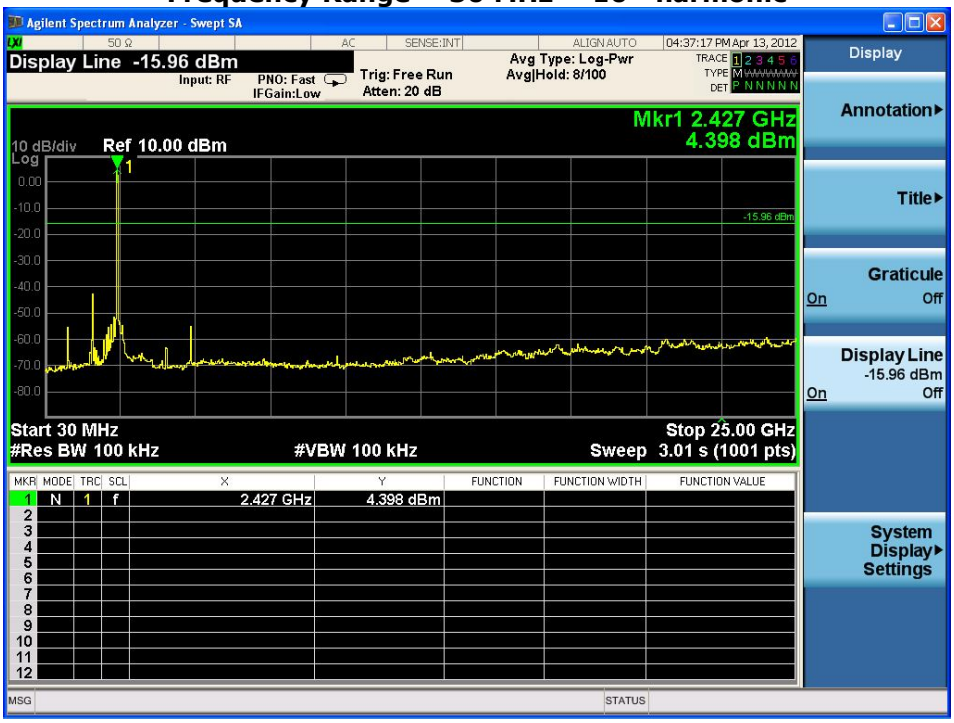
See next pages for actual measured spectrum plots.

# 802.11b Band–edge Measurements

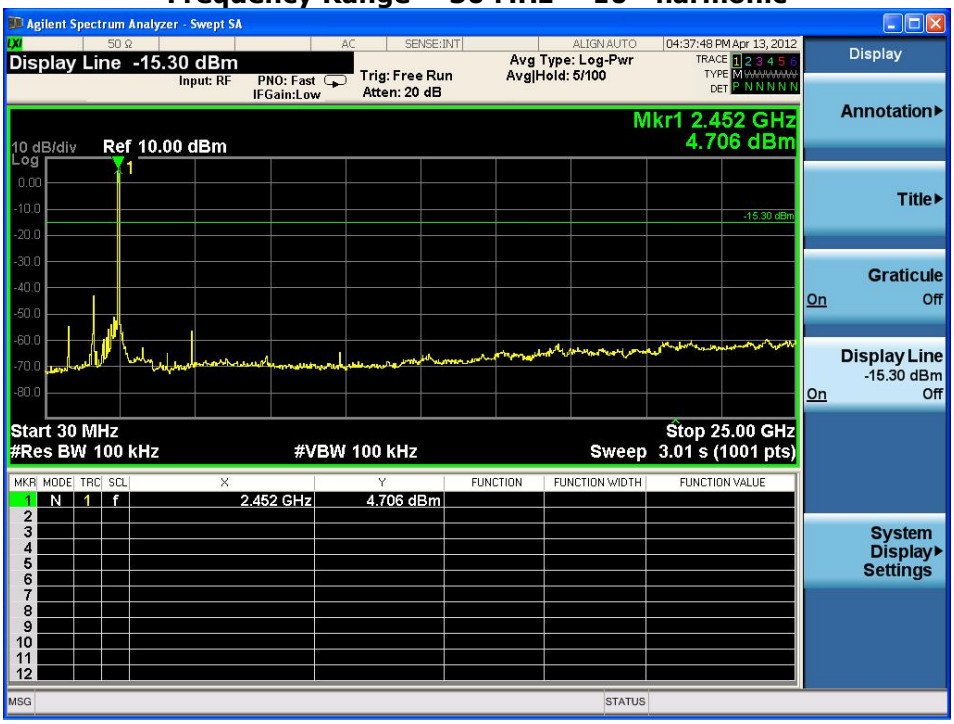

**Band – edge (at 20 dB blow) – Low channel(802.11b)**
**Frequency Range = 30 MHz ~ 10th harmonic**



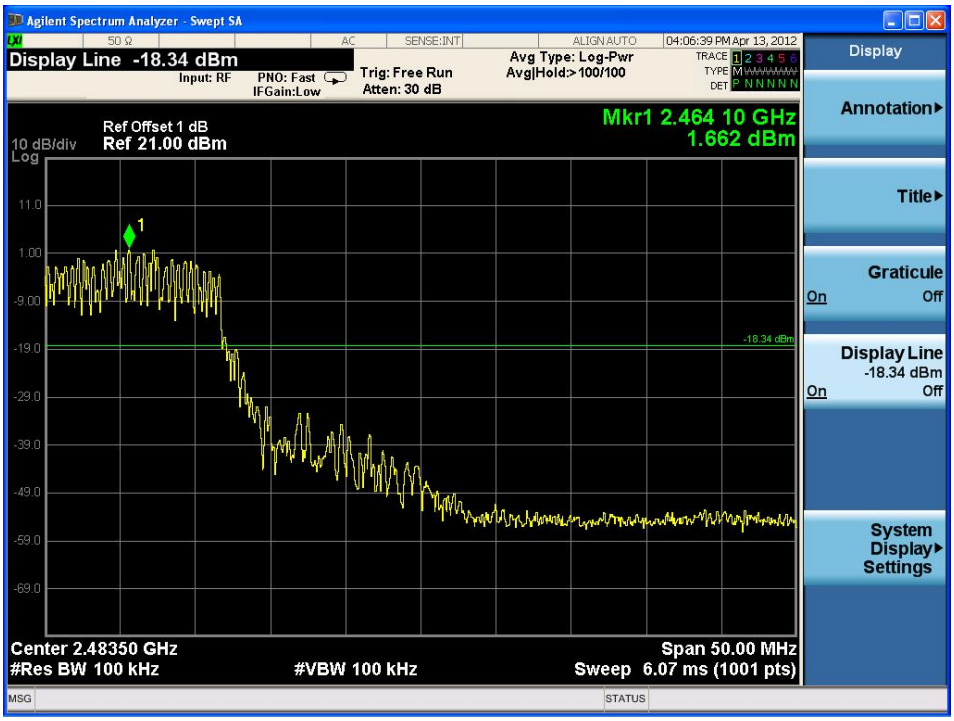

**Band – edge (at 20 dB blow) – Mid channel(802.11b)**
**Frequency Range = 30 MHz ~ 10th harmonic**



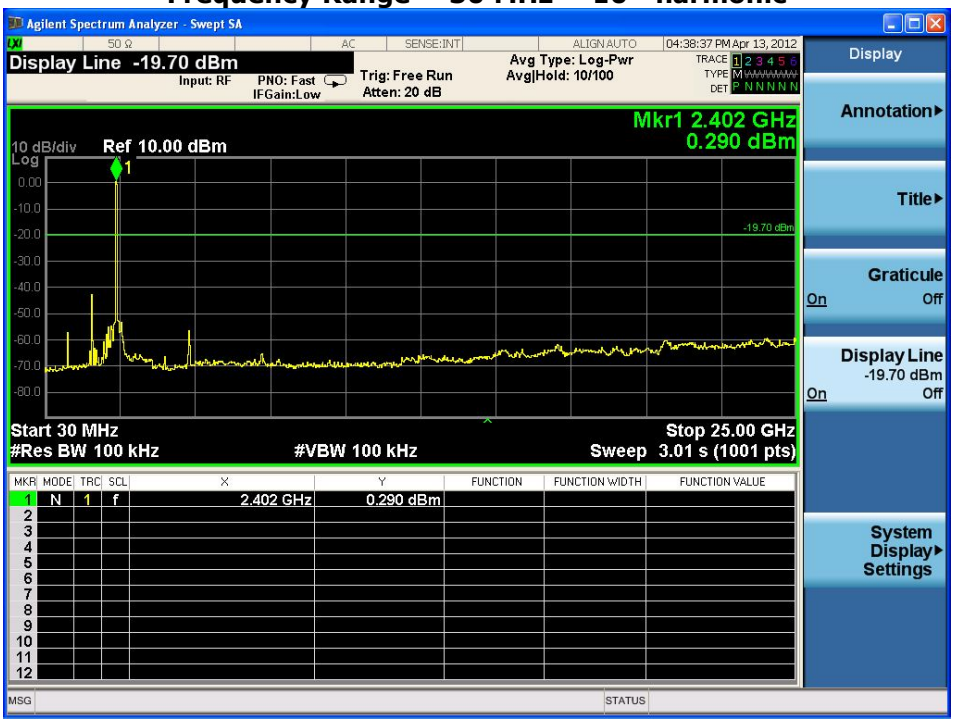
**Band – edge (at 20 dB blow) – High channel(802.11b)**
**Frequency Range = 30 MHz ~ 10th harmonic**



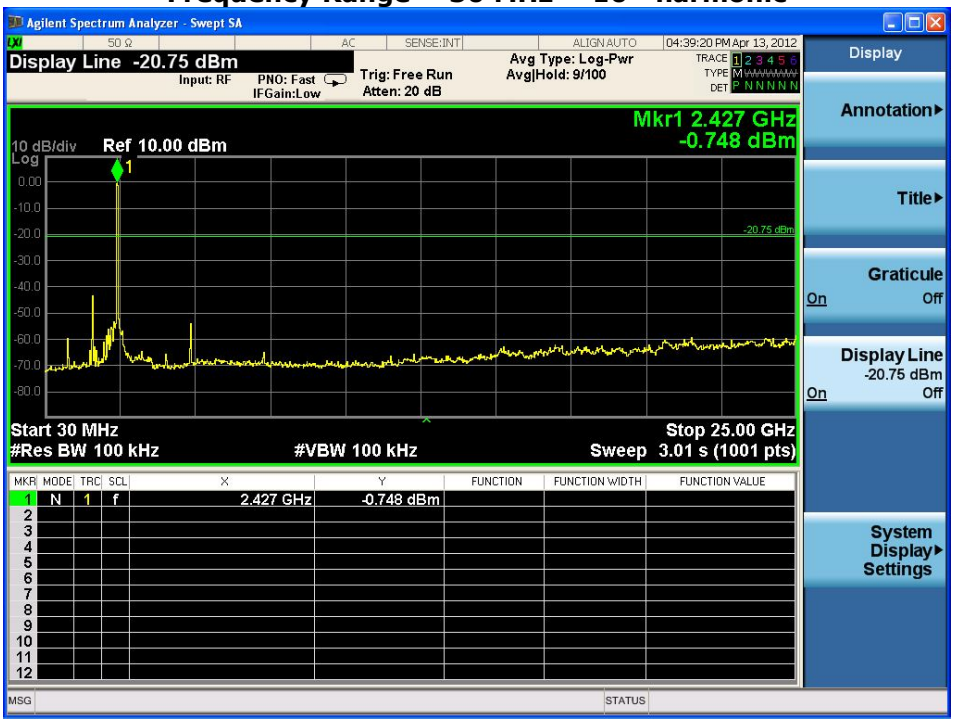
# 802.11g Band–edge Measurements

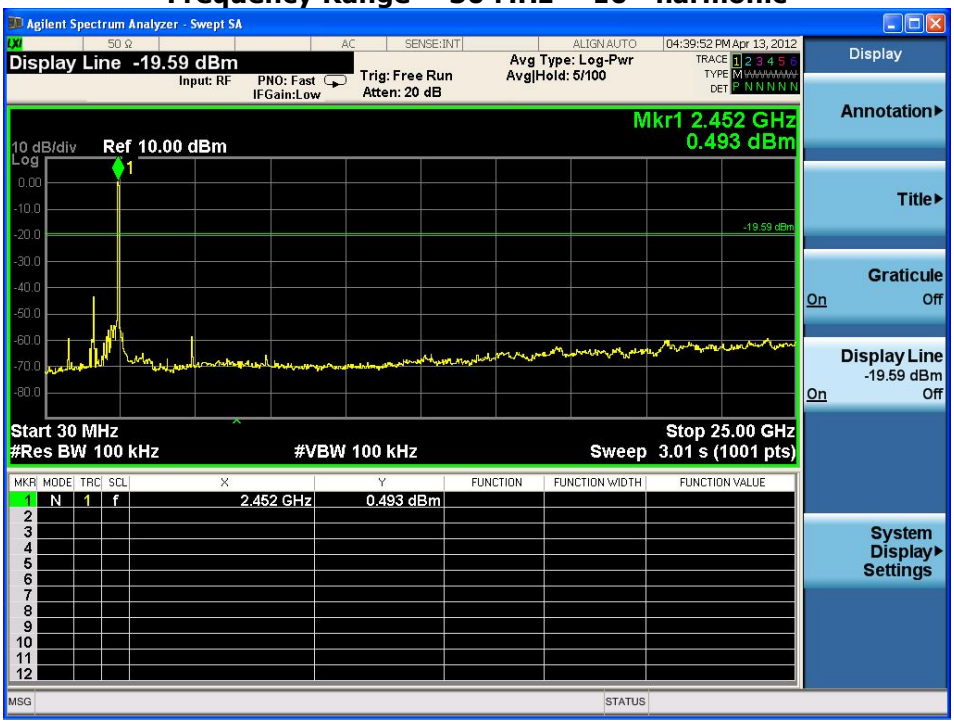
**Band – edge (at 20 dB blow) – Low channel(802.11g)**
**Frequency Range = 30 MHz ~ 10th harmonic**




**Band – edge (at 20 dB blow) – Mid channel(802.11g)**
**Frequency Range = 30 MHz ~ 10th harmonic**



**Band – edge (at 20 dB blow) – High channel(802.11g)**
**Frequency Range = 30 MHz ~ 10th harmonic**



## 802.11n(20MHz, Ant0) Band–edge Measurements